

CLAIMS

1. A method of producing an electronic unit of a radio system which comprises a mechanical part, a circuit board attached to the mechanical part and an electronic component connected to the circuit board, the method comprising:

mounting the electronic component in a cavity provided for the electronic component in the mechanical part;

placing the circuit board on the electronic component and the mechanical part;

connecting the electronic component and the circuit board together using electric coupling members for aligning them with respect to each other and for forming an electrical connection between electric connecting means of the circuit board and electric connecting means of the electronic component;

attaching the electronic component and the circuit board to each other and to the mechanical part automatically so that the electronic component will be in contact with the mechanical part.

2. A method according to claim 1, wherein the electric coupling members are screws.

3. A method according to claim 1, wherein the electronic component and the circuit board are attached to each other and to the mechanical part automatically by screwing.

4. A method according to claim 1, wherein the electronic component is cooled via the mechanical part.

5. A method according to claim 1, wherein the electronic component is earthed via the mechanical part.

6. A method according to claim 1, wherein the electronic component is mounted automatically in the cavity provided in the mechanical part.

7. A method according to claim 1, wherein the electronic component is mounted with its bottom against the mechanical part.

8. A method according to claim 1, wherein the circuit board is placed automatically on the electronic component and the mechanical part.

9. A method according to claim 1, wherein the electric connecting means of the circuit board are connecting areas of the circuit board.

10. A method according to claim 1, wherein the electric connecting means of the electronic component are connecting strips of the electronic component.

11. A method according to claim 1, wherein the electronic component is a high-frequency power transistor.

12. A method according to claim 1, wherein the circuit board is arranged on the electronic component and the mechanical part so that the electronic component is placed in an opening provided for the electronic component in the circuit board.

13. An electronic unit of a radio system which comprises a mechanical part, a circuit board attached to the mechanical part and an electronic component connected to the circuit board, wherein:

the mechanical part comprises a cavity in which the electronic component is mounted;

the circuit board is placed on top of the electronic component and the mechanical part;

the electronic unit comprises electric coupling members, which are used for aligning the electronic component and the circuit board with respect to each other;

the electronic component comprises electric connecting means, which are electrically connected to electric connecting means included in the circuit board using the electric coupling members included in the electronic unit;

the electronic component and the circuit board are attached to each other and to the mechanical part so that the electronic component is in contact with the mechanical part.

14. An electronic unit of a radio system which comprises a mechanical part, a circuit board attached to the mechanical part and an electronic component connected to the circuit board, wherein the electronic unit is produced by a method which comprises:

mounting the electronic component in a cavity provided for the electronic component in the mechanical part;

placing the circuit board on the electronic component and the mechanical part;

connecting the electronic component and the circuit board together using electric coupling members for aligning them with respect to each other

and for forming an electrical connection between electric connecting means of the circuit board and electric connecting means of the electronic component;

attaching the electronic component and the circuit board to each other and to the mechanical part automatically so that the electronic component will be in contact with the mechanical part.

15. An electronic unit according to claim 13, wherein the electric coupling members are screws.

16. An electronic unit according to claim 13, wherein the electronic component and the circuit board are attached to each other and to the mechanical part automatically by screwing.

17. An electronic unit according to claim 13, wherein the electronic component is cooled via the mechanical part.

18. An electronic unit according to claim 13, wherein the electronic component is earthed via the mechanical part.

19. An electronic unit according to claim 13, wherein the electric connecting means of the circuit board are connecting areas of the circuit board.

20. An electronic unit according to claim 13, wherein the electric connecting means of the electronic component are connecting strips of the electronic component.

21. An electronic unit according to claim 13, wherein the electronic component is a high-frequency power transistor.

22. An electronic unit according to claim 13, wherein the mechanical part comprises cooling means.

23. An electronic unit according to claim 13, wherein the circuit board comprises an opening provided for the electronic component.

24. An electronic unit according to claim 14, wherein the electric coupling members are screws.

25. An electronic unit according to claim 14, wherein the electronic component and the circuit board are attached to each other and to the mechanical part automatically by screwing.

26. An electronic unit according to claim 14, wherein the electronic component is cooled via the mechanical part.

27. An electronic unit according to claim 14, wherein the electronic component is earthed via the mechanical part.

28. An electronic unit according to claim 14, wherein the electric connecting means of the circuit board are connecting areas of the circuit board.

29. An electronic unit according to claim 14, wherein the electric connecting means of the electronic component are connecting strips of the electronic component.

30. An electronic unit according to claim 14, wherein the electronic component is a high-frequency power transistor.

31. An electronic unit according to claim 14, wherein the mechanical part comprises cooling means.

32. An electronic unit according to claim 14, wherein the circuit board comprises an opening provided for the electronic component.